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Applicant(s): Frank Oliver Hoffmann, et al.
U.S.S.N.: 10/816,445

Attorney Docket No.: 34874-096/2003P00878US

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method of transporting a message from a sending application to a receiving application, across a messaging landscape in a collaborative network, the method comprising:

defining [[a]] an application message to include having a structured application message header, wherein the structured message header is being defined in accordance with [[a]] an application messaging protocol, the structured message header comprises comprising one or more components defined by the protocol with each of the one or more components relating to a corresponding set of attributes of the message, information related to at least one component from a set of components defined by the protocol, and the protocol defines the at least one of the one or more components of the structured header to comprise including information related to:

a processing mode for the message, and
security for components of the message;
sending the message according to the protocol, from the sending application; and
receiving, at the receiving application, the message.

2. (Original) A method in accordance with claim 1, wherein the method further comprises:

defining the message to include a message body, wherein the message body is defined in accordance with the protocol, the message body comprises at least one component from a second set of components defined by the protocol, and the protocol defines the second set of components to comprise:

a fault message component representing an error occurring at a messaging peer that generated the error.

3. (Original) A method in accordance with claim 2, wherein the fault message is defined to represent at least one error from a set of errors and the protocol defines the set of errors to comprise:

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errors processing a message;
errors parsing a message; and
errors rendering a message.

4. (Original) A method in accordance with claim 1, wherein the security for components of the message is defined to comprise:
information related to a signature of the message; and
information related to a signature of a payload of the message, if the message includes the payload.

5. (Currently amended) A method of transporting a message from a sending application to a receiving application, across a messaging landscape in a collaborative network, the method comprising:

defining [[a]] an application message having a structured application message header, the structured message header being defined in accordance with an application messaging protocol, the structured application message header comprising one or more components defined by the protocol with each of the one or more components relating to a corresponding set of attributes of the message, at least one of the one or more components including to include version information, wherein the version information indicates [[a]] the protocol used to define the message;
sending the message according to the protocol; and
receiving, at a messaging component in the messaging landscape, the message, wherein the messaging component is being operative to process the message based on the version information included in the message.

6. (Original) A method in accordance with claim 5, wherein the version information includes a major version and a minor version.

7. (Original) A method in accordance with claim 6, wherein the messaging component is operative to process the message if the major version is less than or equal to a major version for which the messaging component is configured.

8. (Original) A method in accordance with claim 6, wherein the messaging component is operative to process the message regardless of the minor version of the message and the

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messaging component is operative to optimally process the message if the minor version of the message is less than or equal to a minor version for which the messaging component is configured.

9. (Currently amended) A method of transporting a message from a sending application to a receiving application, across a messaging landscape in a collaborative network, the method comprising:

defining [[a]] an application message having a structured application message header, the structured application message header including one or more components defined in accordance with an application messaging protocol with each of the one or more components relating to a corresponding set of attributes of the message, at least one of the one or more components to include including addressing information, wherein the addressing information is defined in accordance with a protocol and the protocol defines defining;

addressing information to include party information for the sending application and the receiving application, and

the party information to include identification of a party that is a business party or an agency that is defined by a scheme;

sending the message, from the sending application, according to the protocol; and receiving, at the receiving application, the message.

10. (Currently amended) A method of transporting a message from a sending application to a receiving application, across a messaging landscape in a collaborative network, the method comprising:

defining [[a]] an application message according to a class of messages, wherein the class of messages is one of a plurality of classes of messages that are defined by [[a]] an application messaging protocol, the application message having a structured application message header, the structured message header being defined in accordance with the application messaging protocol, the structured application message header comprising one or more components defined by the protocol with each of the one or more components relating to a corresponding set of attributes of the message;

sending the message, from the sending application, according to the protocol; and receiving, at the receiving application, the message.

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11. (Currently amended) A method of transporting a message from a sending application to a receiving application, across a messaging landscape in a collaborative network, the method comprising:

receiving [[a]] an application message, from the sending application, at a first component of the collaborative network, the application message having a structured application message header, the structured message header being defined in accordance with a protocol, the structured application message header comprising one or more components defined by the protocol with each of the one or more components relating to an associated set of attributes of the message;

in response to the first component successfully receiving the message, the first component sending a transport level acknowledgement to the sending application;

the first component modifying the message to include the first component on a hop-list in the message;

the first component causing the message to be sent to the receiving application;

in response to receiving an acknowledgement message, from a second component, indicating that the message has been received by the receiving application, the first component sending a transport level acknowledgement to the second component.

12. (Original) A method in accordance with the method of claim 11, wherein causing the message to be sent to the receiving application comprises:

the first component sending the message to one of one or more components in the collaborative network, wherein each component is operative to:

send a transport level acknowledgement, in response to successfully receiving the message;

cause the message to be sent to the receiving application;

include the component on the hop-list in the message, by modifying the message;

if the component sends the message to the receiving application,

generate the acknowledgement message, and

send the acknowledgement message; and

send a transport level acknowledgement in response to successfully receiving the acknowledgement message.